

Address Subcommittee and Puerto Rico Address Data Working Group Meeting

May 13, 2020

11:00 pm– 12:30 pm Eastern



Meeting Agenda

1. Welcome and Introductions/Roll Call
2. Civic Location Data Exchange Format (CLDXF) Standard Version 2 – Christian Jacqz
3. NAD Updates – Steve Lewis
4. Puerto Rico Address Data Working Group (PRADWG) Phase 2 Report – Lynda Liptrap
5. Address Workflow Subgroup Update – Matt Zimolzak
6. Address Content Subgroup Update – Dave Cackowski
7. Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE) Update – Raul Rios-Diaz
8. Action Item Review – Dave Cackowski
9. Adjourn

Civic Location Data Exchange Format (CLDXF) Standard Version 2

NAD Updates

Since the April Meeting

- Virtual onboarding remains a challenge, so Justin is still working from home on GIS Inc equipment
 - Cleared 2 weeks ago, then began process for PIV exemption
 - DOT computer will be shipped to him soon, which will give him access to the DOT network
- Texas is still priority 1
 - Data submitted by county, so it is being processed by county
 - Texas is enthusiastic about the feedback
 - Committed to working with us to ensure their data is compatible with the NAD

Other than Texas....

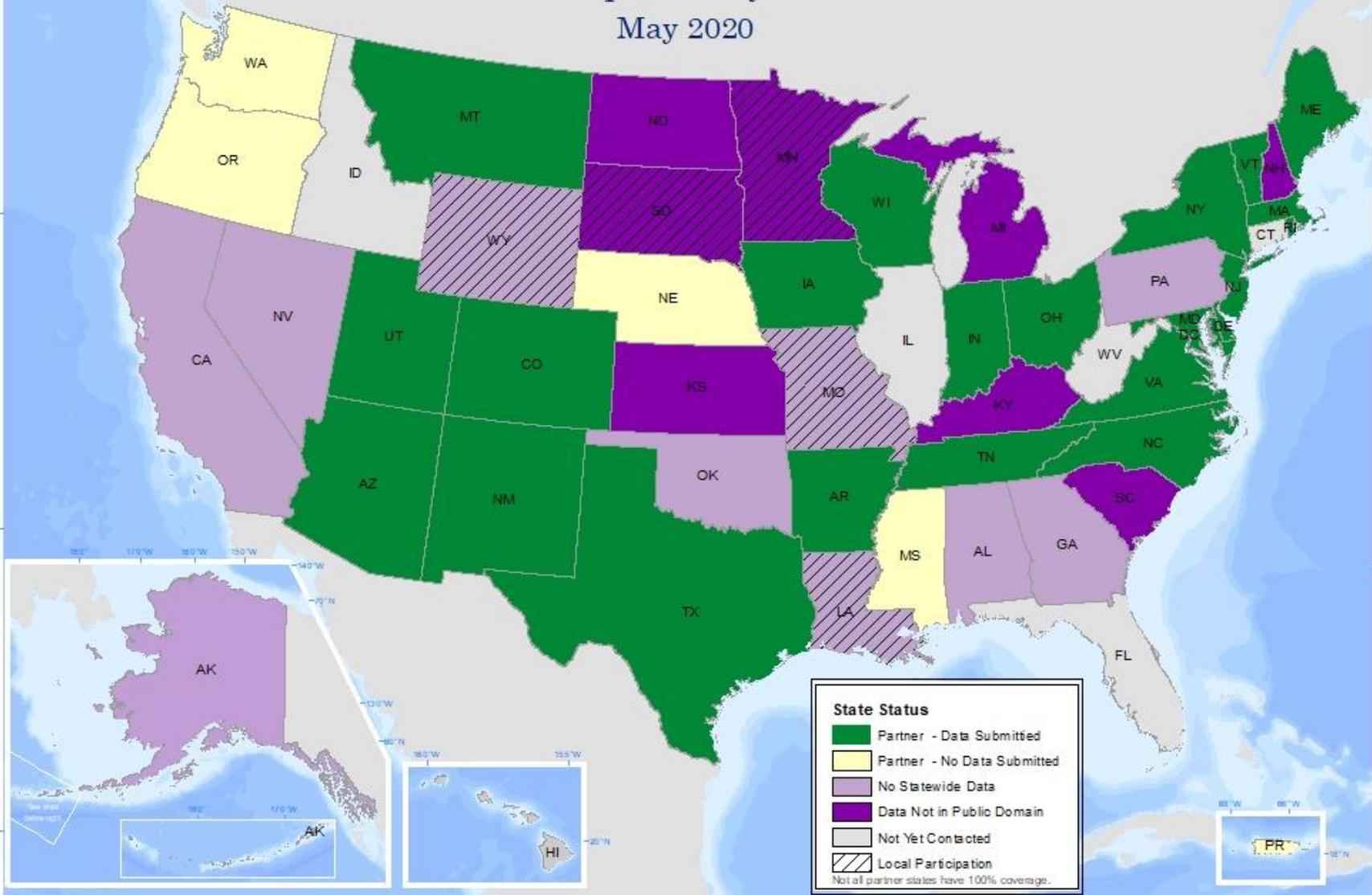
- Twin Cities data has been processed, which resulted in updates to the street type domain
- New York update has been processed
- Updates have been promised from
 - Arizona
 - Arkansas
 - Delaware
 - Indiana
 - Massachusetts
 - New Jersey
 - New Mexico
 - North Carolina
 - Oregon (first submission)
 - Utah
 - County consortium from Missouri
- Possible new partner: Los Angeles County



U.S. Department of Transportation
Office of Chief Information Officer

National Address Database Participation by State

May 2020



NAD Strategies Subgroup

- The overall goal of the subgroup is to devise strategies to ensure that the NAD is properly resourced and supported.
- Specific goals and objectives, along with expected deliverables, will be developed by the subgroup.
- First meeting will be next week.
- Last call for participation!

NAD Strategies Subgroup Roster

- Carl Anderson, URISA
- Keri Brennan, URISA
- Jonathan Duran, Arkansas
- Laurie Flaherty, DOT/NHTSA
- Bo Guo, Gistic Research
- Bill Johnson, AppGeo
- Steve Lewis, DOT
- James Meyer, Arizona
- Karen Rogers, Wyoming
- Andy Rowan, New Jersey
- Jill Saligoe-Simmel, ESRI
- Omri Shafrir, DHS/FEMA
- Gene Trobia, AGIC
- Matt Zimolzak, DOC/Census



The Puerto Rico Address Data Working Group (PRADWG) Phase 2 Report

Presentation for the Federal Geographic Data Committee Address Subcommittee

Lynda Liptrap, PRADWG Chair

May 13, 2020

PRADWG Background



**Disaster
Recovery and
Preparedness**



**Hurricanes
Irma and
Maria**

2017



**Unique Diversity
in Puerto Rico's
Addressing
System**



**Puerto Rico
Address Data
Workshop**

2018



**Puerto Rico
Address Data
Working Group**

2019

Why this Working Group?

Various intergovernmental entities have identified the need for an inclusive federal government conversation about the collection and management of Puerto Rico addresses.



Federal Puerto Rico Address
Data Stakeholders



Subcommittee on Disaster
Reduction



Federal Geographic Data
Committee Address Subcommittee



October 2018
**Puerto Rico Address Data
Workshop**

Whether fulfilling the mission to distribute aid after a disaster, enumerate and tabulate the population, or deliver mail on-time, many government entities have a stake in managing PR address data in order to meet their respective mission objectives

Participating Agencies



FEMA



Purpose Statement

The Puerto Rico Address Data Working Group Purpose Statement:

- **Promotes agency collaboration, transparency, and strategic prioritization in the federal address collection and management process for PR;**
- **Documents use cases representing the various agency requirements for collecting and maintaining PR address data;**
- **Documents agency challenges in collecting and maintaining PR address data (Phase 2); and**
- **Aligns with the goals of the FGDC Address Theme and Subcommittee to contribute to the National Geospatial Data Infrastructure (NSDI).**

Phase 1

Puerto Rico Address Data Resources

PUERTO RICO ADDRESS DATA WORKING GROUP - PROVEN PRACTICES TEMPLATE

Organization	Name of organization
Point of Contact:	Name Title Email address Phone Number
in 140 characters or less	
What problem are you trying to solve?	
What problem related to the mission of your agency or organization is this project or product addressing?	
What context or product history that is relevant, data that is the scope of the problem, and/or images (including screenshots) which help explain the problem?	
What data practitioners face similar/related challenges?	
Proven Practice in detail here: What is the status: implemented or proposed?	
Description, including: - model/framework and data methods, new or already used - access mechanism - data sets involved, both acquired and generated - platforms or systems, analytics, visualization tools - practices used/developed - data sets produced from this project or product, including screenshots, etc.	
Requirements: How this solution, if fully implemented, benefits the sponsor? The federal government as a targeted user groups?	
Beyond the value to your agency, help us understand the impact of this project will be seen and felt by citizens, stakeholders and residents of Puerto Rico?	
Stories, relevant research, customer citations, and metrics (realized or for future) including market research.	
What knowledge derived from experience, both internal and external, to promote the recurrence of desirable outcomes or avoidance of undesirable outcomes?	
What access required to replicate the work?	
Attach any relevant diagrams or images	

Prácticas Comprobadas para la Gestión de Datos de Direcciones de Puerto Rico

Grupo de Trabajo sobre Datos de Direcciones de Puerto Rico (PRADWG, por sus siglas en inglés)
Informe para el Comité Federal de Datos Geográficos (FGDC)
Subcomité de Direcciones
27 de junio de 2019

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Federal Geographic Data Committee (FGDC)

[Free Community Site on the GeoPlatform](#)
[Data Working Group \(PRADWG\)](#)

[Addresses Thoroughfare, Landmark, and Postal Address \(C\) Address Standard](#)
[Exchange Format \(CLDXF\) Standard](#)
[Address Database \(NAD\) Schema](#)

[Puerto Rico Address Data](#)

[Database](#)

[Data Interconnection Portal](#)

[JSON and Conversion Tool](#)

[KML/line Shapefiles and TIGERweb Map Viewer and](#)

[Project Addressing Tools](#)

[Website and GitHub Page](#)

[Geographic Information Council \(NSGIC\)](#)

[Consortium \(OGC\)](#)

[Information Systems Association \(URISA\)](#)

These resources and tools can be found at:

platform.gov/ngda-address/puerto-rico-address-data-working-group/



Federal Data Strategy
Leveraging Data as a Strategic Asset

About Federal Data Strategy Action Plans Progress Resources News Contact

Agencies Mobilize to Improve Emergency Response in Puerto Rico through Better Data

July 26, 2019

Challenges Identified in Phase 1



The majority of Puerto Rico addresses do not match the conventional city-style format, which makes it difficult for Census IT systems to match data unless they have some customizations in place.



The challenge is not only in getting addresses, but also building footprints, parcel outlines, population data, etc. to combine into a database that can be used in modeling disaster scenarios to research mitigation and recovery needs. All of this data is much easier to access on the mainland than it is on the island.



The challenge was to send out claim checks without mailing addresses.



Addresses are needed as part of disaster recovery assistance, but not all structures have unique, findable addresses. Claims are linked to an address so multiple residences using the same address would get denied. Also need addresses to be able to find structures to assess.



USPS has a hard time maintaining a complete database of all mailable addresses in Puerto Rico.



Inadequate data on the location of assets and tenants inhibits HUD's ability to conduct research, evaluation, and monitoring activities on its programs.

Top 3 Proven Practices

Recognizing the differences in Puerto Rico addresses and accounting for them in the data model (e.g., adding urbanizacion name field).

Standardizing and cleaning the data whether through manual or automated methods.

Validating the data through fieldwork or a source such as the US Postal Service.

Recommendations

Recommend that all federal agency Puerto Rico address data stakeholders adopt one or more of the proven practices identified in this report, especially the top three proven practices.

Request that federal agencies publish their proven address data practices, tools, and procedures to an open platform.

Recommend a Phase II for the PRADWG to document federal agency requirements for Puerto Rico address data.

Phase 2

Objective: Identify Agency Challenges in Using and Managing Puerto Rico Address Data

Methodology: Use of a Questionnaire and Interviews to Capture Information

Outcome: Phase 2 Report

Questionnaire

- What are your agency's challenges with managing Puerto Rico address data?
- Are your challenges usually associated with single, isolated events in Puerto Rico (such as a natural disaster or emergency) or are these associated with an ongoing program managed by your agency?
- If the latter, how long has this program existed?
- How do these challenges negatively impact your agency's mission in Puerto Rico? Provide additional information not stated above (optional).
- Which category or categories best describe these challenges? Choose all that apply.
 - o Data Management (e.g. data hygiene, standards, currency)
 - o Resources (e.g. personnel and budget)
 - o Source Data (e.g. no open data, data is unusable, data is incomplete)
 - o Sharing (e.g. impediments within or across agencies, privacy, and/or legal constraints)
 - o Other

Follow-up Interviews

- If you were to rate the challenge's impact, would you consider it a high, medium, or low impact to your program?
- If you were to categorize the impact stated above, which of the following would you choose?
 - o Increased Cost
 - o Decreased Quality
 - o Increased Time
 - o Decreased Customer Experience/Service

Findings

- **Agency Use Cases**
 - Mission Planning/Decision Making
 - Disaster Recovery
 - Geolocation
 - Mailing Lists
- Agency Use of Standards
 - Half of the agencies use a published address standard
 - USPS Publication 28
 - The FGDC Address Standard

Agency Challenges

- **Source Data** - Puerto Rico does not have a freely available, complete, and authoritative database of addresses, or a single island-wide addressing system. Commercial data sets exist but are incomplete and often not standardized.
- **Data Management** - databases and systems are designed for U.S. city-style addresses and do not include extra fields needed for Puerto Rico addresses.
- **Sharing** is an impediment due to privacy issues and/or legal constraints. Some agencies have restrictions on sharing address information between agencies at the federal-to-federal level, as well as the federal-to-local level.
- **Resources** - the lack of physical addresses requires additional resource assignments of personnel, equipment, and funding in order to fulfill missions.

Impacts of Address Data Issues

- Issues become more acute during disaster related events
 - *High Impact* for the majority of agency use cases
- Challenges impact ongoing programs for nearly all agencies
 - *Medium to Low Impacts*
- Increased time and increased cost
- Decreased customer service, and decreased quality

Puerto Rico Address Data Projects

- Puerto Rico Planning Board - Standardized Puerto Rico Integrated Intelligence Geographic Systems (sPRInGS)
- Initiative for Civic Address Systems Assessment in Puerto Rico (iCasaPR)
 - Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE)
 - Address Data Pilot Projects with Municipios

Next Steps

- Promote open data and standardization policies as models for the development of an open address database for Puerto Rico.
- PRADWG Phase 3
 - Gather federal agency requirements to improve the management of Puerto Rico address data.

For More Information On The PRADWG

- **Address Data Community**
 - <https://communities.geoplatform.gov/ngda-address/>
- **Puerto Rico Address Data Working Group**
 - <https://communities.geoplatform.gov/ngda-address/puerto-rico-address-data-working-group/>
- **PRADWG and the Federal Data Strategy**
 - <https://strategy.data.gov/proof-points/2019/07/26/pradwg/>

Thank You To the PRADWG
Agency Participants!

Address Workflow Subgroup Update

Address Content Subgroup Update

Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE) Update

Action Items

Thank You



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